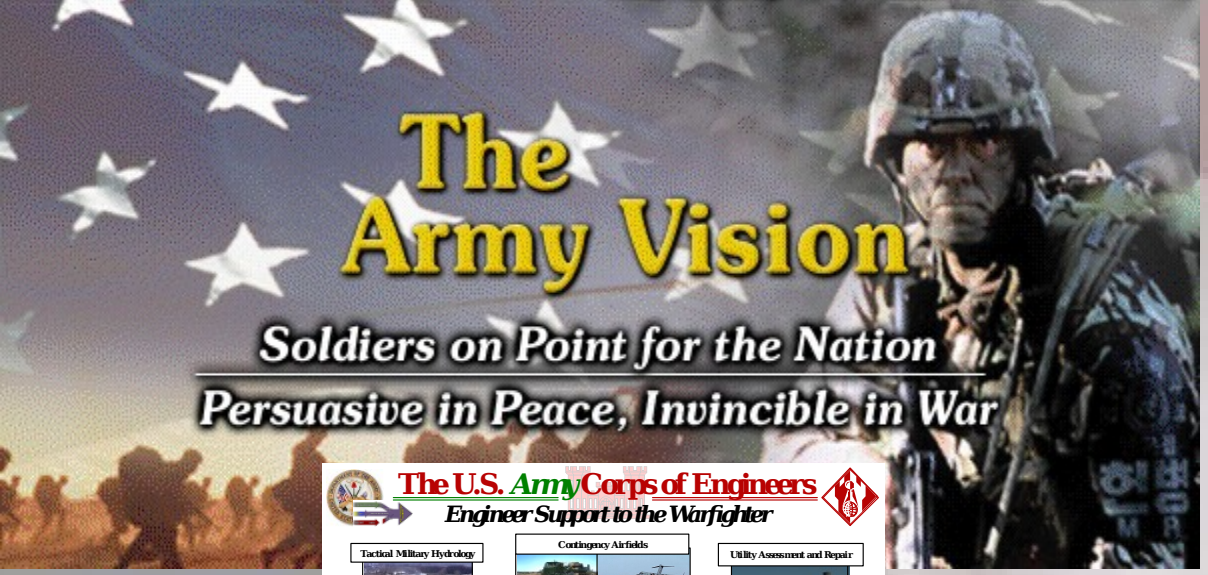
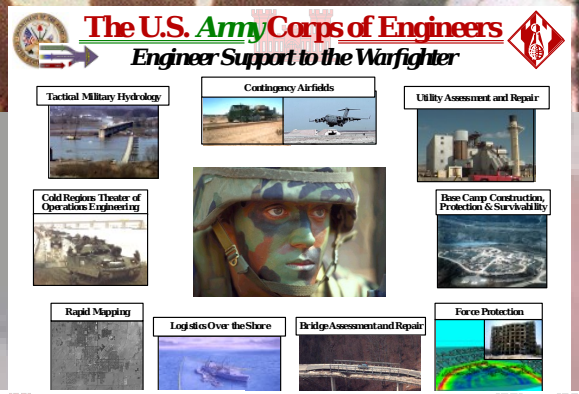
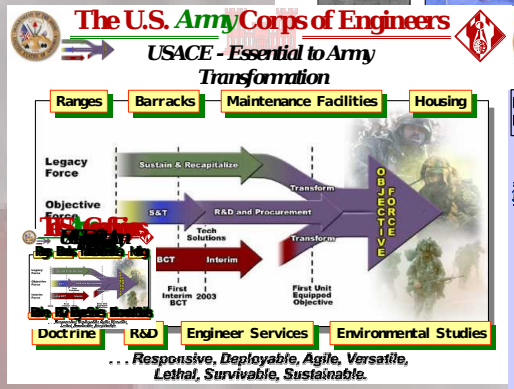
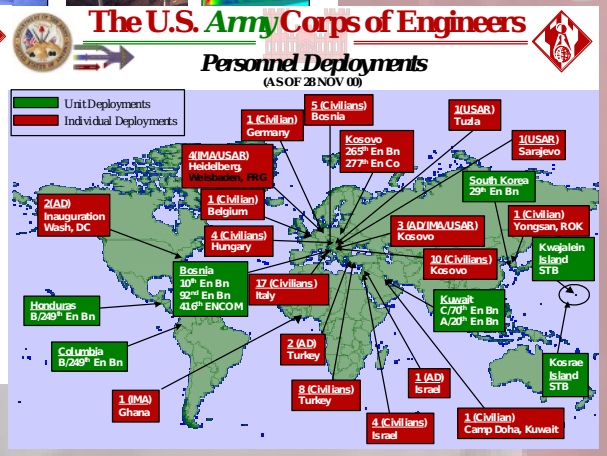



The U.S. Army Corps of Engineers
Engineer Support to the Warfighter
Tactical Military Hydrology
Contingency Airfields
Utility Assessment and Repair
Cold Regions Theater of Operations Engineering
Base Camp Construction, Protection & Survivability
Rapid Mapping
Logistics Over the Shore
Bridge Assessment and Repair
Force Protection





USACE Welcomes

General Shinseki, CSA

28 February 2001

Engineers on point for the Army and the Nation!

Purpose of Your Visit

To allow me to showcase your

US Army Corps of Engineers

We are:

- **Trained and Ready - Supporting the Warfighter**
- **Essential to the Transformation**
- **Providing Solutions Today**
- **Globally Deployed - A Vital Part of Engagement**
- **Connecting America to its Army**
- **Talented - Dedicated - Unique**

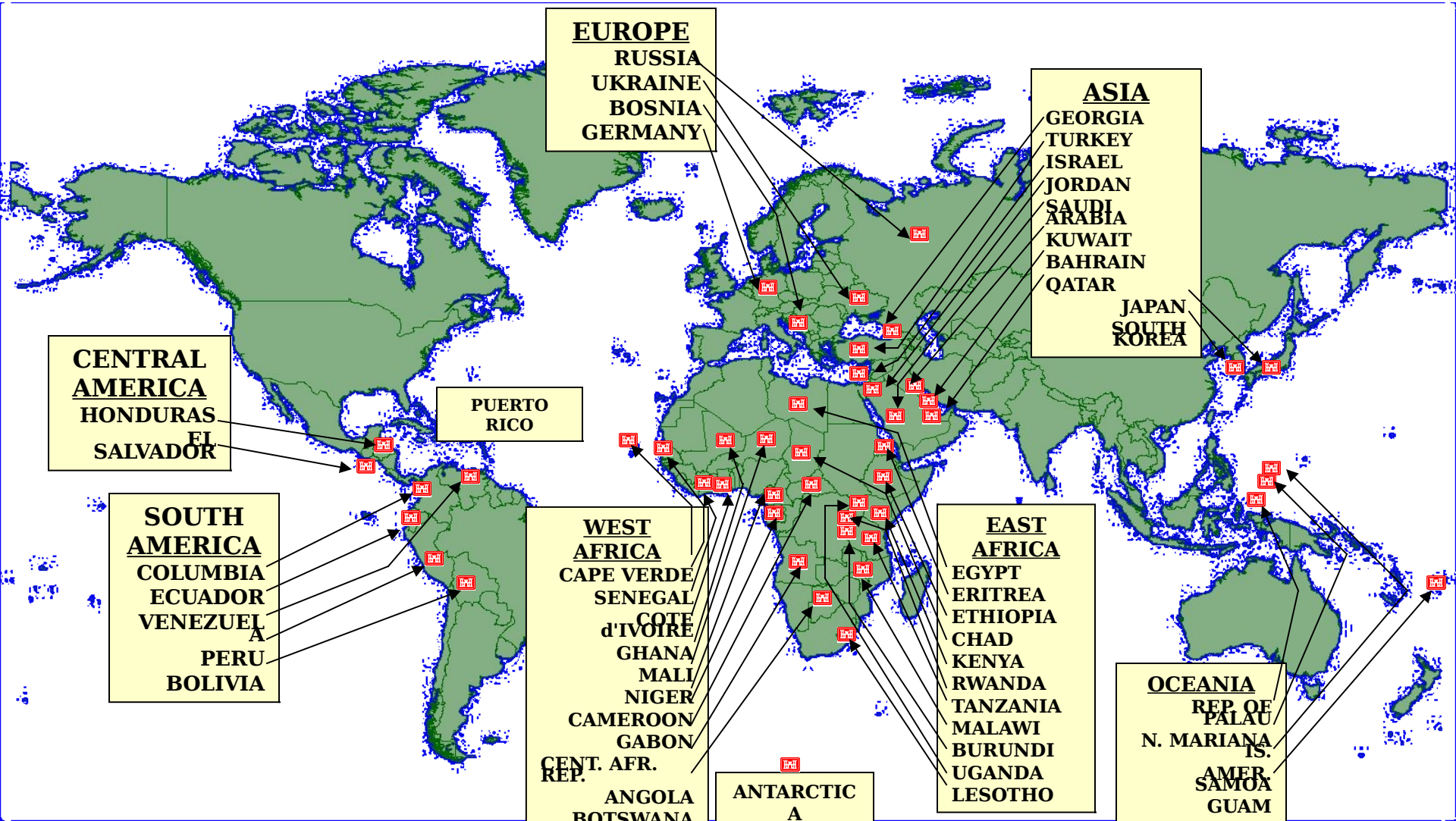
Indispensable

Agenda

- USACE Operations Update
- Mission Areas in Support of
  - The Army and the Nation
  - The Army Transformation
- Mine/Countermine: An Enduring Army Enabler
- Rapid Response Vehicle Tour

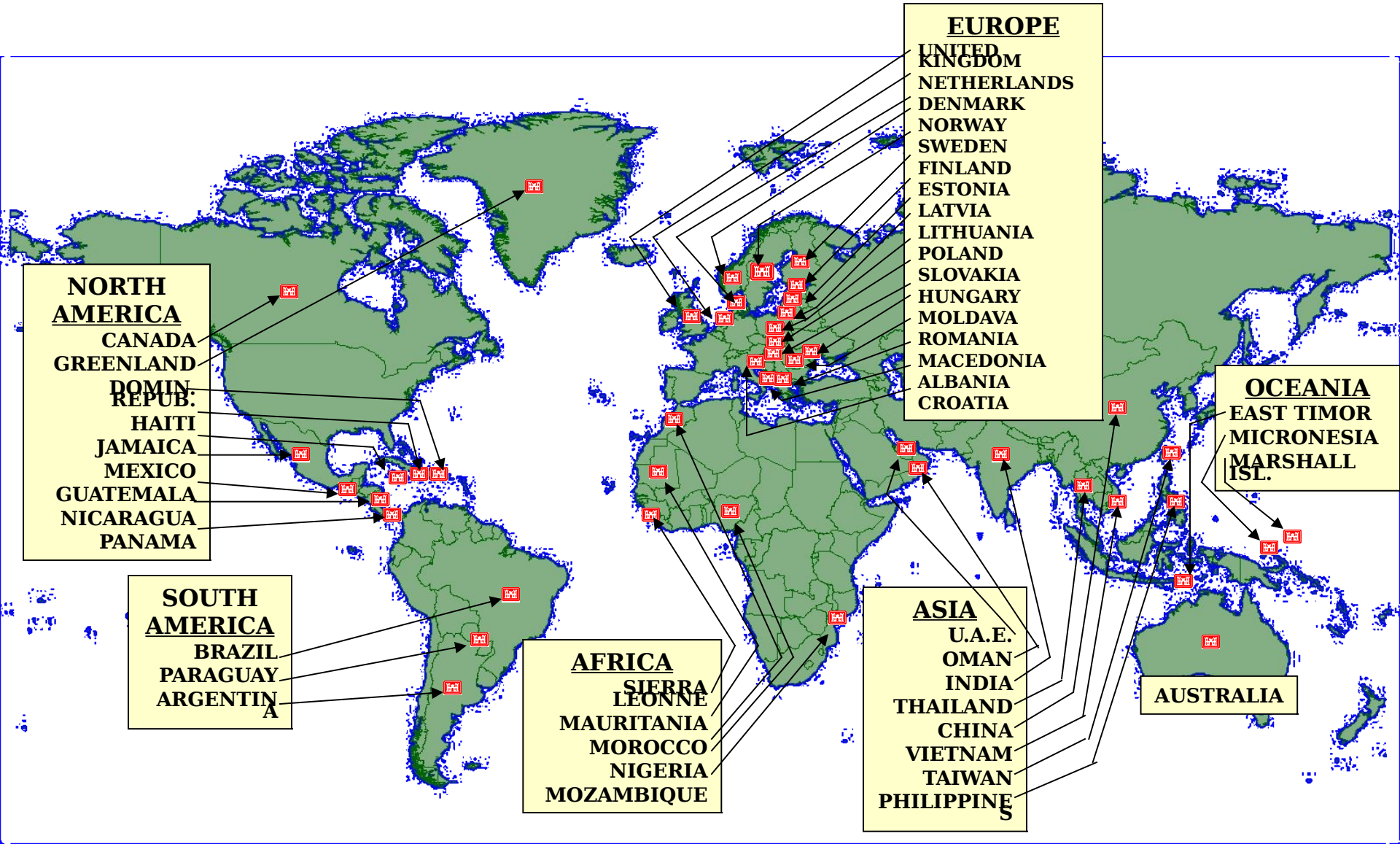
Global Engagement

(Construction Support)



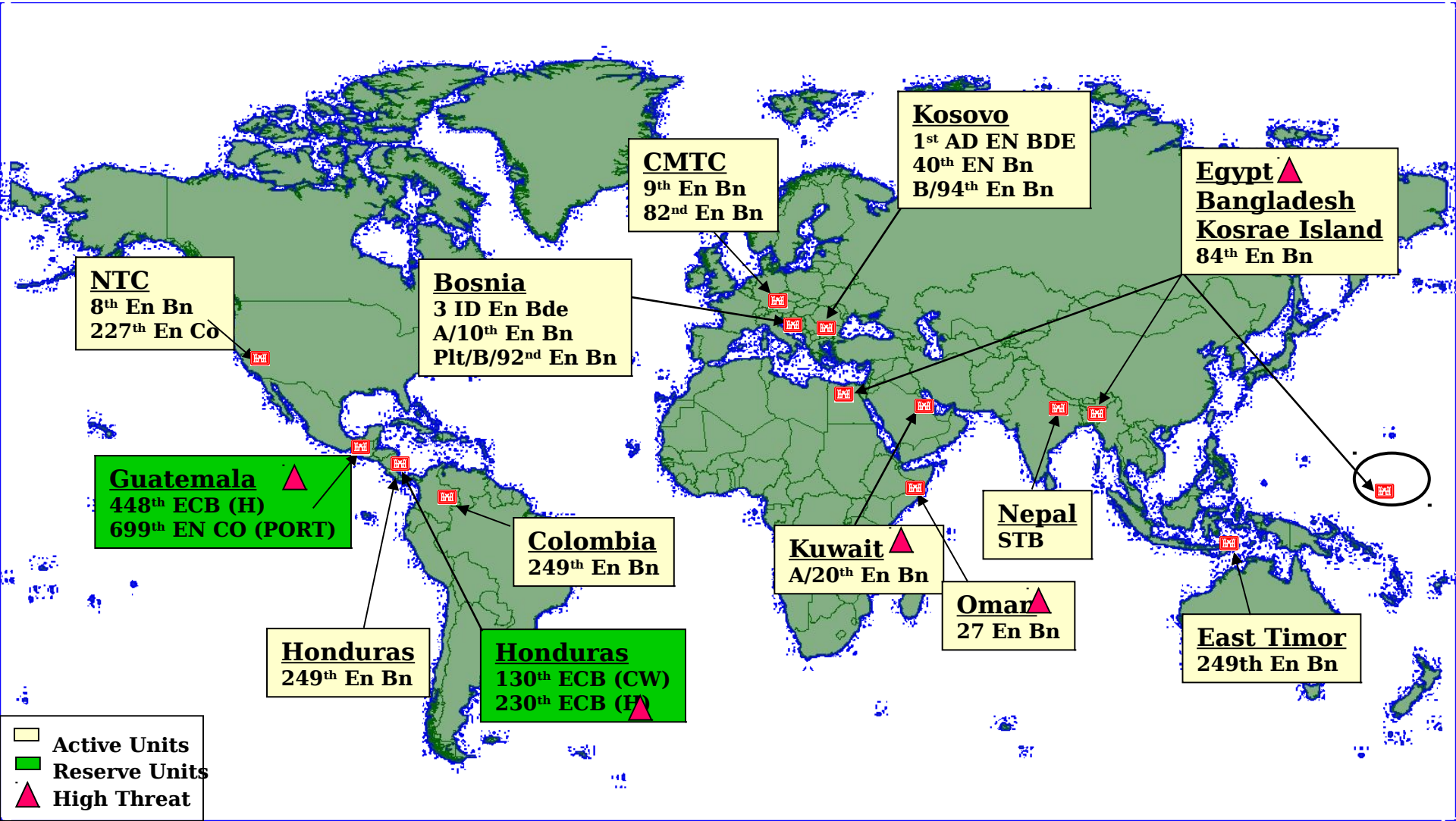
Global Engagement

(Technical Assistance)



Engineer Unit Deployments

(AS OF 28 FEB 01)

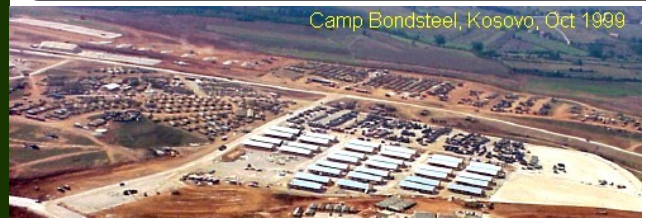


Support to the Army and the Nation

E Missions

Military

- Military construction
- Base operations
- Environmental restoratio
- Geospatial Engineering



Research & Development

- Combat engineering
- Civil construction
- Terrain & Geospatial

Real Estate

- Acquire, manage & dispose
- DOD recruiting facilities
- Contingency

Interagency

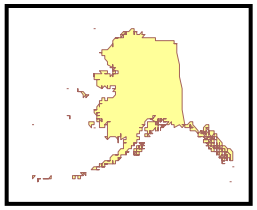
- DOD & Federal
- State & Local
- International

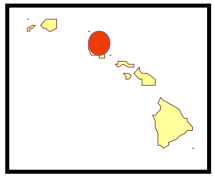
Civil Works

- Navigation
- Flood control
- Disaster response
- Environmental restoration

Support to the Army and the Nation

A USACE Terrain Walk





Personnel

Uniformed = 650

Military Programs	Civil Works
10K	25K

NWD

SPD

POD

LRD

NAD

SWD

MVD

SAD

8 Divisions
41 Districts
2 Centers
7 World Class Labs
1 Engineer Battalion

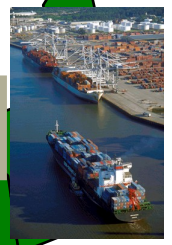
Support to the Army and the Nation
A USACE Terrain Walk
Civil Works Program Activities

800 Coastal Navigation Projects

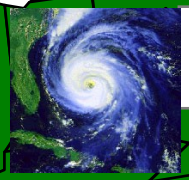
24 Million Acres Public Lands

450 Major Lakes & Reservoirs 385 M Visitors/yr

299 Deep Draft Harbors

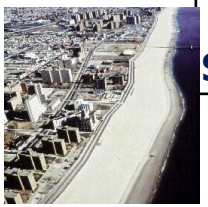


12,000 miles Inland Waterways



Emergency Operations

400 miles Coastal Structures

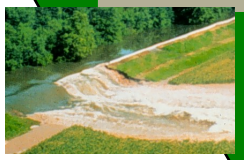


4300 Recreation Areas

275 Locks

$500M Annual Dredging Costs

8500 Miles of Levees



Environmental Stewardship

- US Ports & Waterways convey > 2B Tons Commerce
- Foreign Trade alone Creates > $160B Tax

Support to the Army and the Nation

A USACE Terrain Walk

South Atlantic Division

MG Phillip R. Anderson

Commander

Personnel

4,200 Employees

8,000 Contractor Personnel

100 Members of Cong

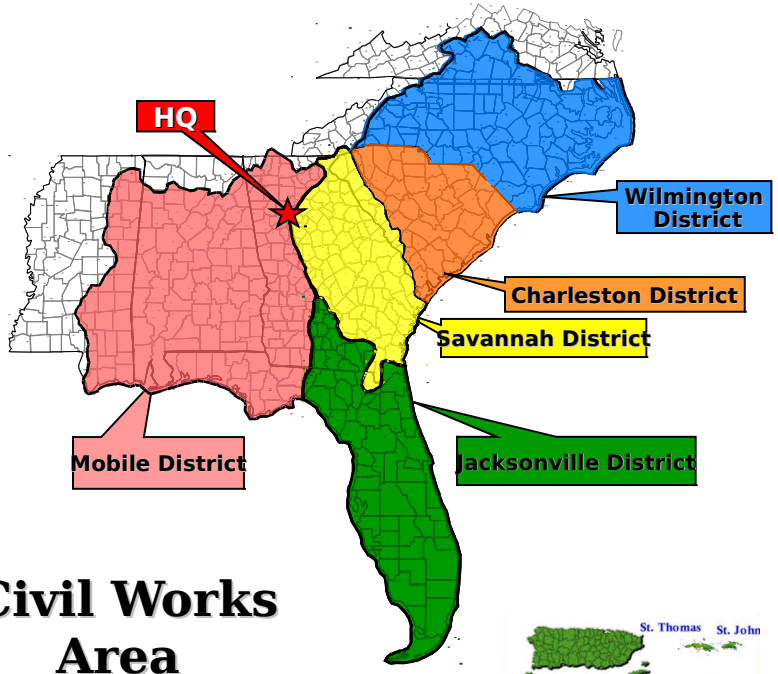
16 Senators

84 Representatives

Annual Program ($1.38 billion)

$650 Million -- Military Programs (Projects on 15 Army and 16 Air Force installations)

$730 Million - Civil Works



Civil Works Area

Support to the Army and the Nation

A USACE Terrain Walk

Savannah District

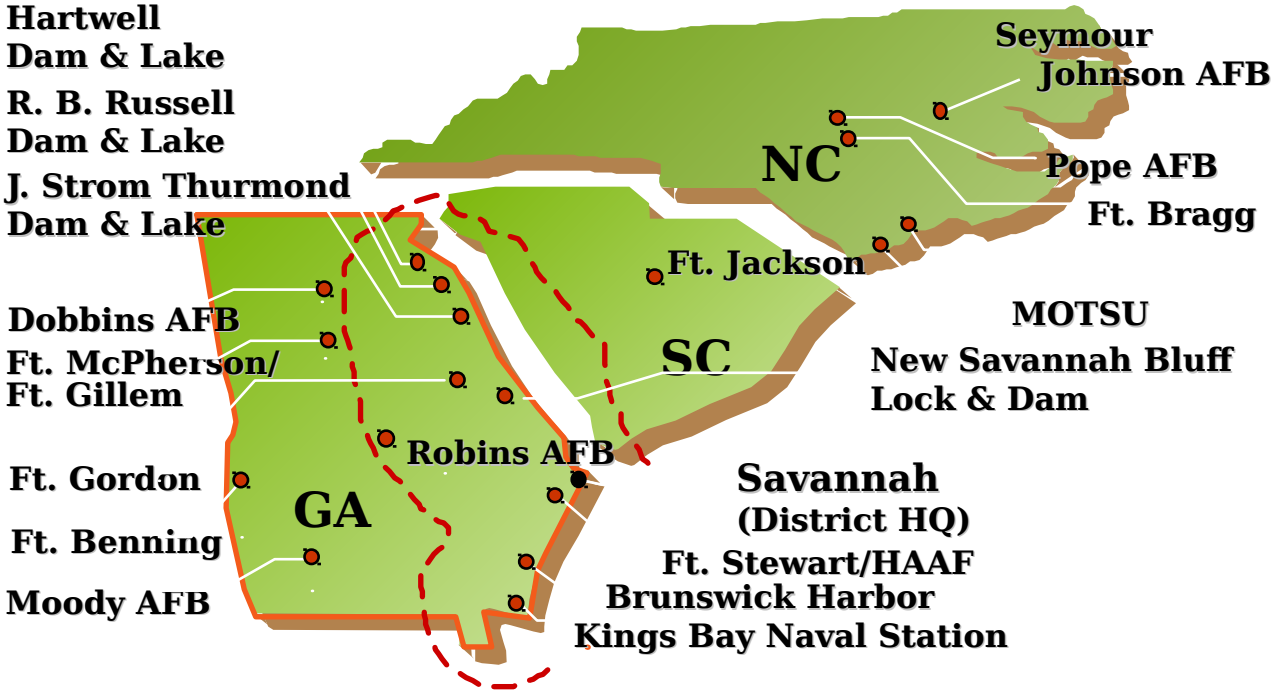
COL Joseph K. Schmitt

Commander

930 Personnel

Annual Program ($466 million)

- $380M -- Military Programs (110 projects on 7 Army and 5 Air Force installations)
  - Army -- $714M under construction
  - Air Force -- $170M under construction
- $75M - Civil Works (15 projects)
- $21M - Environmental Programs



Congressional Delegation (10)

Senate

Strom Thurmond (R-SC)
Ernest Hollings (D-SC)
Max Cleland (D-GA)
Zell Miller (D-GA)

House

Floyd Spence (R-2-SC)
Lindsey Graham (R-3-SC)
Jack Kingston (R-1-GA)
Nathan Deal (R-9-GA)
Charlie Norwood (R-10-GA)

Missions in Support of the Army and Nation

A USACE Terrain Walk

•Strategic deployment
•300 commercial harbors

Development & M
Water Resources

•Florida Everglades
•FUSRAP

Protection, Restorati
Management of the Environment

•30 Presidential declared disasters

Disaster

•Force Protection
•Tactical hydrology
• Bridge assessment

Engineering & Tec

Leveraging Capabilities for the Army

Missions in Support of the Army and Nation

3 May: Fires start. 48,000 acres, 400 homes destroyed
Declared federal disaster area
Albu
USA

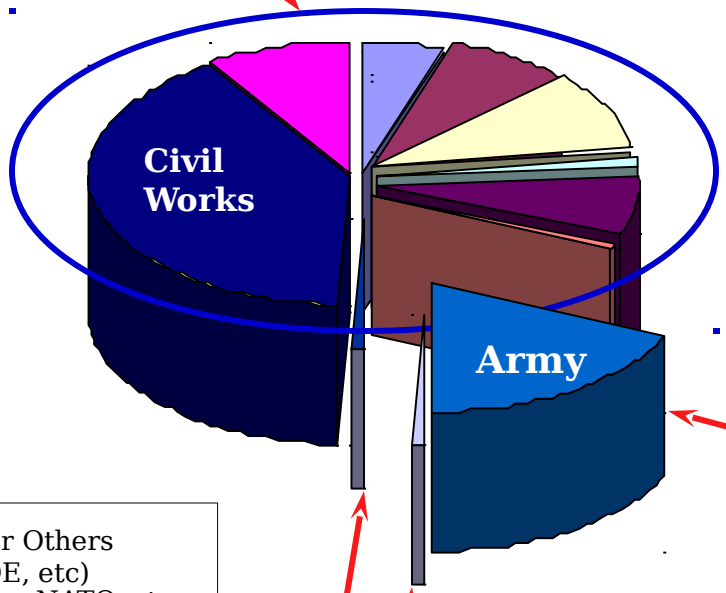
USACE RESPONSE

- **Design and installation of 114 temporary mobile homes - first families moved in 27 June**
- **Comprehensive flood fight plan developed**
- **Executed extensive LANL Emergency Flood Protection Projects**

Support to FEMA/Homeland Security

USACE FY01 Program ($12.4B)

Controlled by other than ARB



- Support for Others (EPA, DOE, etc)
- Host Nation, NATO, etc
- DOD Agencies
- Other (Engr, R&D, NAF, etc)
- Air Force
- Foreign Military Sales
- Army Direct
- USACE Mil Operating Funds
- Civil Works
- Army Reimbursable

Constraints on Commander's flexibility:

- **Congressionally mandated 8 divisions**
- **Maintain CW and Military balance**
- **Can't use Civil funds for military requirements**
- **Army funding algorithms don't reflect USACE requirements**
- **81% of USACE budget is controlled by others**

Army Resources Board Controlled (19%)

MCA, BRAC, AFH, RDT&E, etc
OMA (DERP, RE)

$111M OMA
$152M GE
$263 million

USACE Operating Funds

- **HQUSACE + FOAs**
- **8 Division HQ**

Engineer Support to the Warfighter

Engineers on Point for the Army

Tactical Military Hydrology

Contingency Airfields

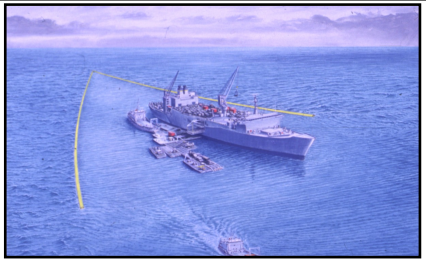
Utility Assessment and Repai

Cold Regions Theater of Operations Engineering

Base Camp Construction Protection & Survivabilit

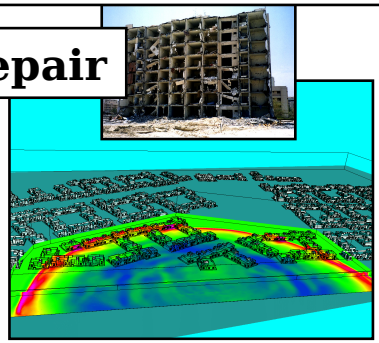
Rapid Mappin

Logistics Over the Shore



Bridge Assessment and Repair

Force Protection

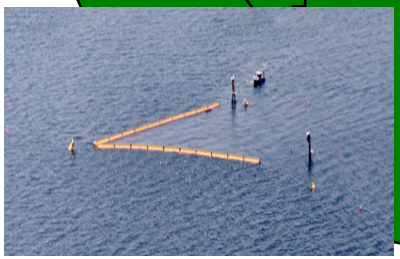


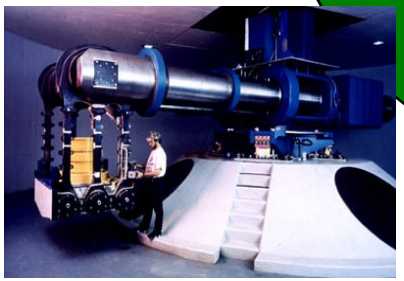
Engineer Support to the Warfighter
Engineer Research and Development Command

7 Unique Labs

- 2014 Employees
- 1029 Scientists & Engineers
  - 533 Master's Degrees
  - 266 Doctorate Degrees
- $1.2 Billion in Research Facilities & Equipment
- $568 Million Annual Program

Capabilities Essential to Transformation





Cold Regions Research Engineering
Hanover, NH

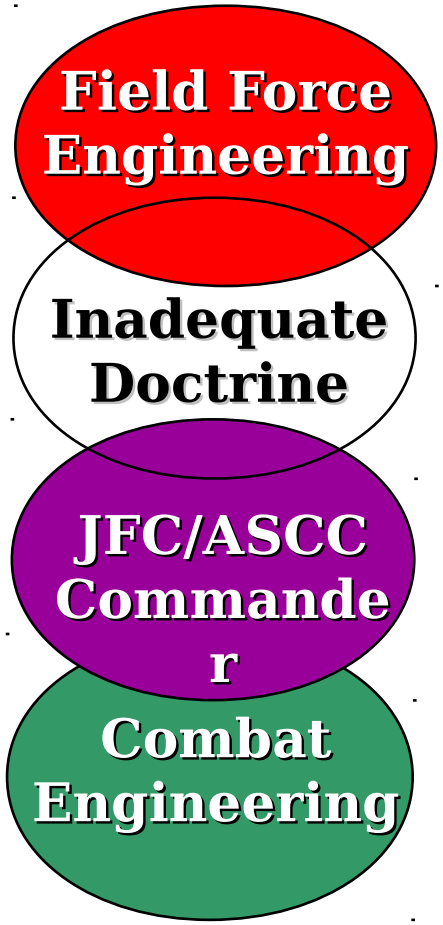
Construction Engineering Research Laboratory
Champaign, IL

Topographic Engineering Center
Alexandria, VA

Coastal and Hydraulics Laboratory
Environmental Laboratory
Geotechnical and Structures Laboratory
Information Technology Laboratory

Engineer Support to the Warfighter

Today's Engineer Operations: We Can Do Better



Field Force Engineering

- Plan, Design, Build Infrastructure
- Environmental Engineering/Baselini
- Real Estate Acquisition
- Technical Assistance to Warfighter
- Contract Construction

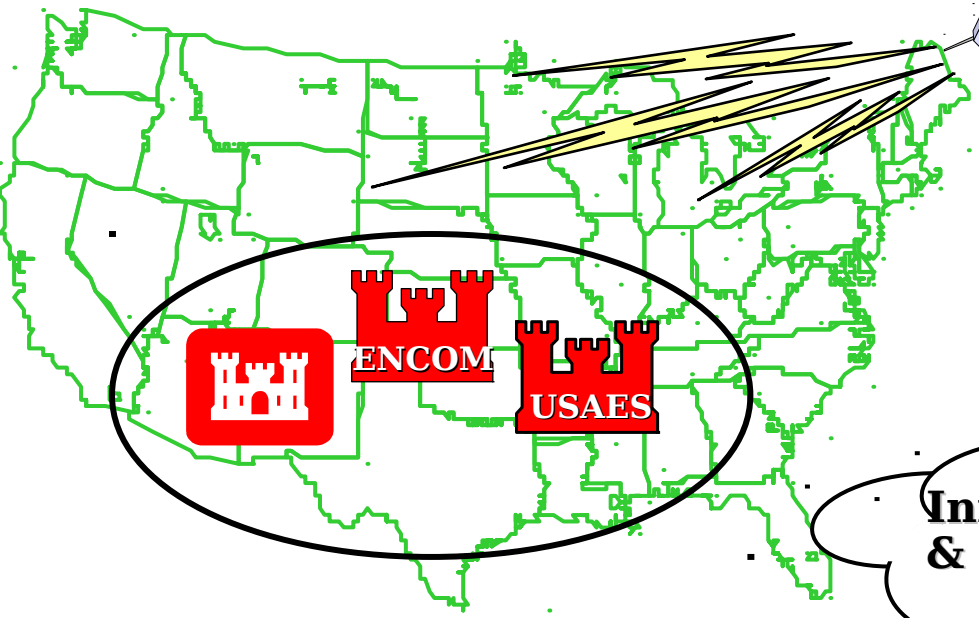
Combat Engineering

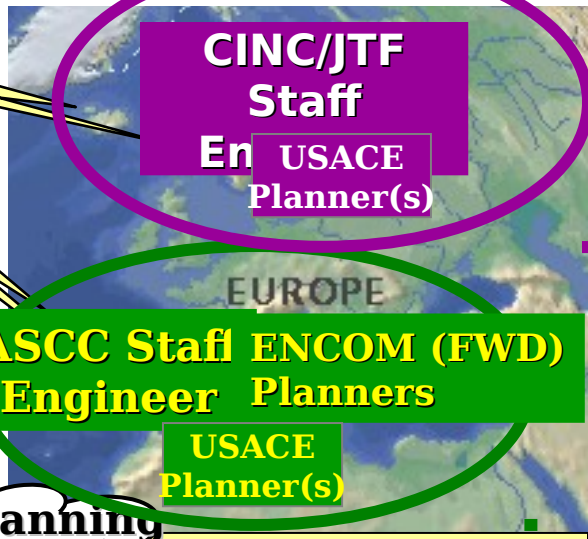
- Mobility
- Countermobility
- Survivability
- Topographic Operations

The objective is to make this employment routine, more timely, and doctrinal -- improving planning for operations

Engineer Support to the Warfighter

Field Force Engineering - Deliberate/Crisis Planning





CINC/JTF Staff En
USACE Planner(s)

ASCC Staff Engineer
ENCOM (FWD) Planners
USACE Planner(s)

Reach-Back for real time Expertise (Labs & CXs) Additional Specialties

Infrastructure Planning & Technical Engineer Expertise

Combat Engineer Expertise

Engineer War Planner Expertise

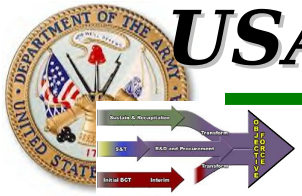
CAPABILITIES

- Construction Management
- Cost Estimating
- Damage Assessment
- Disaster Response
- Engineering/Design
- Environmental Baselin
- Hard Target Assessme
- Legal Services
- Planning
- Procurement/Cont
- Project Managem
- R & D
- Real Estate
- Value Engine

USACE Support to Army Transformation

- **USACE is Fully Engaged**
  - **Mission Analysis based on Army Transformation Campaign Plan (TCP)**
  - **Engineer Annex to guide our efforts along TCP Lines of Operation**
- **Intent: Fully engage our capabilities in support of Army Transformation with a focus on the Objective Force**

USACE Support to Army Transformation



USACE OPLAN

INTENT, CONCEPT, OBJECTIVES, PHASES, DECISION POINTS

ARMY TCP

SYNCH MATRIX

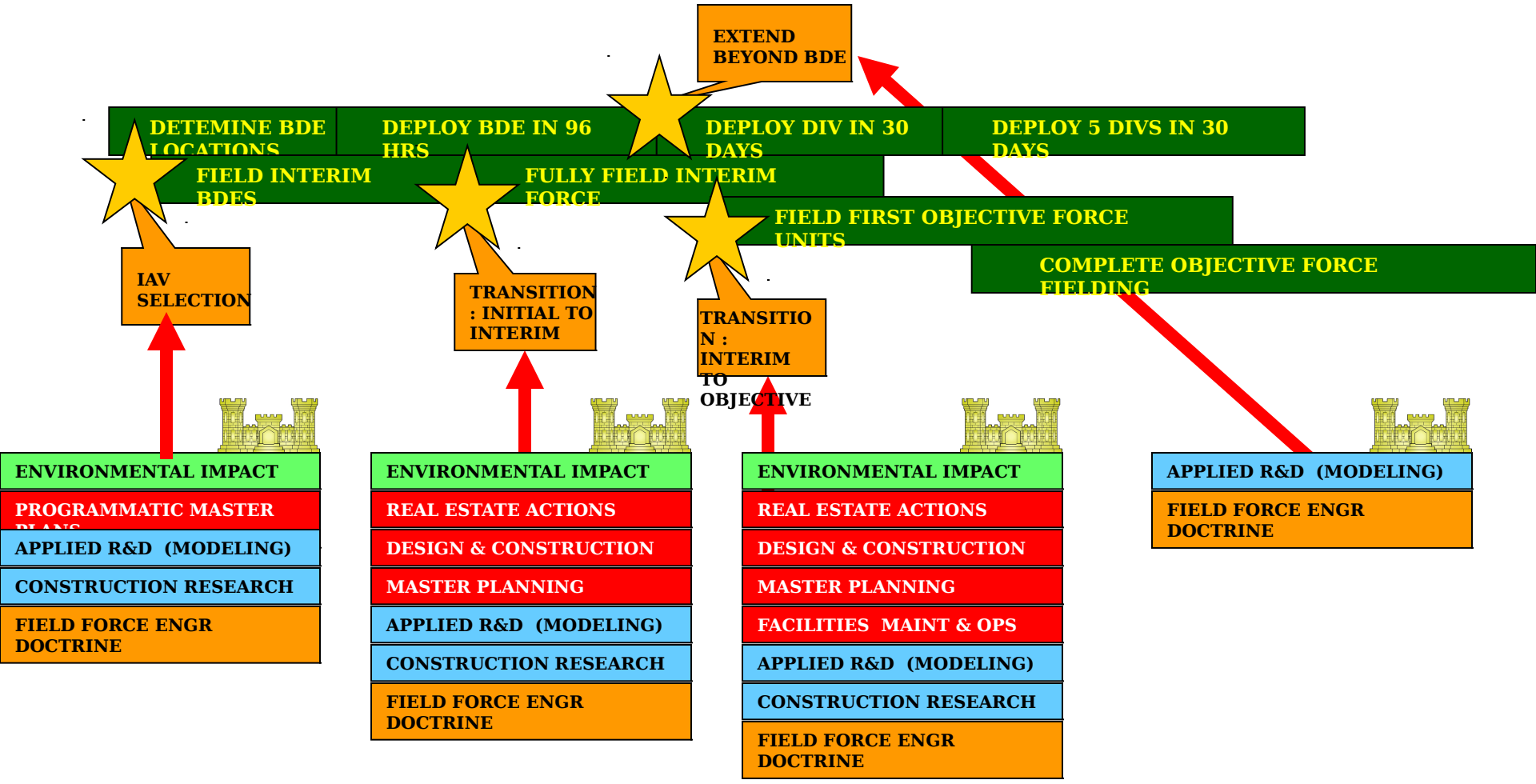
- FIELD FORCE ENGINEERING (ENGLINK) DOCTRINE
- APPLIED R&D
- CONSTRUCTION RESEARCH
- DESIGN & CONSTRUCTION AT FT LEWIS
- FACILITIES MAINT & OPS
- PROGRAMMATIC ENVIRONMENTAL IMPACT STATEMENT
- ENVIRONMENTAL IMPACT
- REAL ESTATE ACTIONS
- DESIGN & CONSTRUCTION
- MASTER PLANNING
- FACILITIES MAINT & OPS

MATCH ARMY NEEDS TO USACECAPABILITIES

SYNCH MATRIX

- LO 1 STRATEGIC REQUIREMENTS/PLANNING
- LO 2 MODERNIZATION/RECAPITALIZATION
- LO 3 MANNING THE FORCE
- LO 4 UNIT READINESS/TRAINING
- LO 5 TRAINING/LEADER DEVELOPMENT
- LO 6 JOINT/ARMY STRATEGY
- LO 7 ARMY DOCTRINE
- LO 8 OPERATIONAL FORCE DESIGN
- LO 10 DEVELOP/ACQUIRE TECHNOLOGY
- LO 11 MANAGEMENT OF FORCE PROGRAMS
- LO 12 INSTALLATIONS
- LO 13 STRATEGIC COMMUNICATIONS
- LO 14 RESOURCING

USACE Support to Army Transformation



USACE Support to Army Transformation

Objective Force Installations (2032)

Installations Today

- Clear Separation between Fort and local community
- Distinct, Stand-alone facilities
- Decentralized facilities planning, acquisition and O&M

A Paradigm Shift

CALL ON USACE MASTER PLANNING CAPABILITIES

Fort Future

- Installation-Community boundaries blur?
- Multi-purpose, interdependent facilities?
- More centralized approach to facilities

Over Two Centuries of Service to the Army and the Nation

1775 - Congress
Establishes Corps of Engineers

1884 - Construction of
Washington Monument

1942 - 1500 Mile
Alaska Highway

1960 to present - Infrastructure
Development in Middle East

Still Engaged…

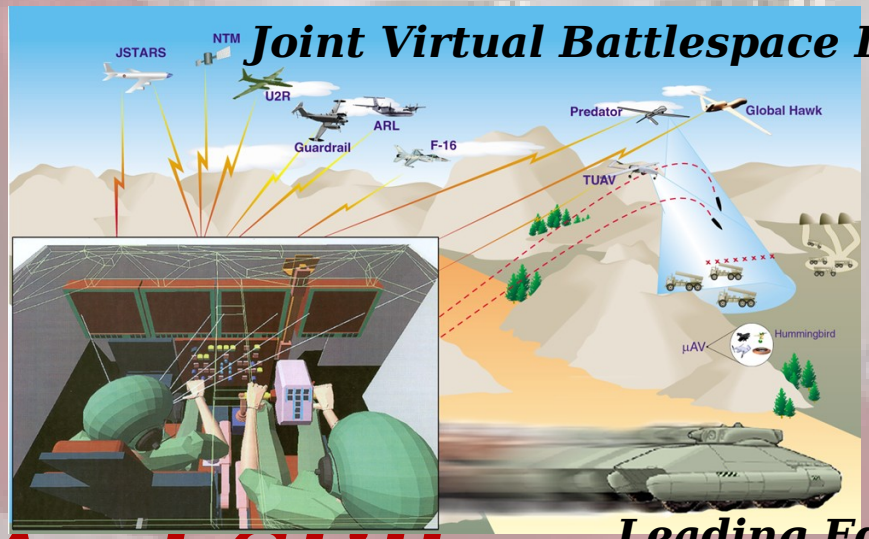
National Security Strategy

Fissile Material Storage Facility, Ru

National Missile Defense

Homeland Security

Joint Virtual Battlespace Initiative



Leading Edge Research

…And Still Relevant

One Corps

Indispensable

To

The Army

The Nation

Our Transformation